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File: EPAB

Nov 19, 1992

UB-NO: EP000513738A2

DOCUMENT-IDENTIFIER: EP 513738 A2

TITLE: Serum-free medium for mammalian cells cultivation.

UBN-DATE: November 19, 1992

INVENTOR-INFORMATION:

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APPL-NO: EP92107997

APPL-DATE: May 12, 1992

PRIORITY-DATA: DE04115722A (May 14, 1991)

INT-CL (IPC): C12N 5/00; C12N 5/06

CUR-CL (EPC): C12N005/00

ABSTRACT:

CHG DATE=19990617 STATUS=O> A serum-free medium for the cultivation of mammalian cells without protein material of animal origin contains, besides conventional ingredients in place of animal insulin and transferring recombinant insulin from prokaryotes and a water-soluble iron compound. A medium of this type is used according to the invention for the cultivation of mammalian cell



especially CHO cells.

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L1: Entry 2 of 2

File: DWPI

Nov 19, 1992

ERWENT-ACC-NO: 1992-383642

ERWENT-WEEK: 199915

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ITLE: Serum-free medium for cultivation of mammalian cells - contains recombinant insulin fro
rokaryonts and water soluble iron cpd. instead of animal insulin and transferrin

NVENTOR: BEHRENDT, U; FRANZE, R ; KOCH, S ; LORENZ, T ; SZPERALSKI, B

ATENT-ASSIGNEE: BOEHRINGER MANNHEIM GMBH (BOEF), ROCHE DIAGNOSTICS GMBH (HOFF)

RORITY-DATA: 1991DE-4115722 (May 14, 1991)

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ATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> EP 513738 A2	November 19, 1992	G	007	C12N005/00
<input type="checkbox"/> DE 4115722 A	November 19, 1992		005	C12N005/06
<input type="checkbox"/> JP 05252942 A	October 5, 1993		006	C12N005/06
<input type="checkbox"/> EP 513738 A3	May 5, 1993		000	C12N005/00

ESIGNATED-STATES: AT BE CH DE DK ES FR GB GR IT LI LU NL PT SE

ITED-DOCUMENTS:No-SR.Pub; 4.Jnl.Ref ; EP 248656 ; EP 307247 ; EP 343635 ; EP 481791 ; WO 8800

PPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 513738A2	May 12, 1992	1992EP-0107997	
DE 4115722A	May 14, 1991	1991DE-4115722	
JP 05252942A	May 11, 1992	1992JP-0117275	
EP 513738A3	May 12, 1992	1992EP-0107997	

NT-CL (IPC): C07K 15/16; C12N 5/00; C12N 5/06; C12N 5/10; C12N 5/16; C12P 21/00; C12P 21/00

BSTRACTED-PUB-NO: EP 513738A

ASIC-ABSTRACT:

A) Serum-free medium for the cultivation of mammalian cells contains no protein material of animal origin and contains recombinant insulin from prokaryotes and a water-soluble Fe. cpd. instead of animal insulin as well as transferrin and conventional additives.

ref. medium contains 0.1-20 mg/l insulin and 10 power(-5) - 10 power(-2) mol/l of the water-soluble iron cpd. which is Fe citrate, Fe sulphate, Fe chloride and/or potassium hexacyanoferrate. Medium also contains 3-700 mg/l aminoacids, 0.001-50 mg/l vitamins, 0.3-10 g monosaccharides, 0.1-10000 mg/l inorganic salts, 0.001-0.1 mg/l trace elements, 0.1-50 mg/l nucleosides, 0.001-10 mg/l fatty acids, 0.01-1 mg/l biotin, 0.1-20 mg/l hydrocortisone, 0.1-10 g/l vitamin B12, 0.01-1 mg/l putrescin, 10-500 mg/l sodium pyruvate and opt. a pH indicator and antibiotics dissolved in water. The medium can also contain 0.1-20 g/l PVA and/or

ethylcellulose.

B) The gene technological prodn. of erythropoietin comprises cultivating CHO cell contg. the gene for erythropoietin in the medium and then insulating erythropoietin from the culture medi

SE/ADVANTAGE - For the cultivation of mammalian cells, esp. CHO cells, and for the gene technological prodn. of erythropoietin, by allowing trans for med CHO cells contg. the gene for erythropoietin to grow in the medium. Conditions for cultivation in the new medium are very close to those used with serum. As the medium contains no protein of animal origin, there is no danger of viral contamination.

ABSTRACTED-PUB-NO: EP 513738A

QUIVALENT-ABSTRACTS:

HOSEN-DRAWING: Dwg.0/0

ERWENT-CLASS: B04 D16

PI-CODES: B04-B02D2; B04-B04A3; B04-B04D2; B05-A03A; B11-A; D05-H01;

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